

This is a RED Stamp

**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

Manual No.: **5-21000-OPS-FO**
Procedure No.: **Table of Contents, Rev 37**
Page: **1 of 3**
Effective Date: **12/08/92**
Organization: **Environmental Management**

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

**VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)**

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FO.03	General Equipment Decontamination	2	05/12/92
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FO.04	Heavy Equipment Decontamination	2	05/12/92
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DCN 92.02	Expired	1	06/12/92
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FO.05	Handling of Purge and Development Water	2	05/12/92
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ADMIN RECORD

**DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991**

A-SW-000505

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Procedure No.	Title	Rev. No.	Effective Date
FO.08	Handling of Drilling Fluids and Cuttings	2	05/12/92
DCN 92.04	Clarification of Drill Cuttings	2	06/04/92
DCN 92.05	Handling of Drilling Fluids and Cuttings	2	09/02/92
DCN 92.06	Clarification of Responsibility	2	09/09/92
DCN 92.07	Elimination of Drilling Requirements on Earthen Dams	2	09/10/92
DCN 92.08	Consistency Change	2	09/18/92
DCN 92.09	Clarification of Augering Technique for OU-6	2	10/28/92
FO.09	Handling of Residual Samples	2	05/12/92
FO.10	Receiving, Labeling, and Handling Environmental Materials Containers	2	05/12/92
DCN 92.03	Clarification on Drums	2	06/12/92
DCN 92.04	Decrease in Weekly Inspections of Gray Drums	2	11/18/92
DCN 92.05	Requirement Reduction	2	09/16/92
DCN 92.06	Improve Accountability	2	10/15/92
DCN 92.07	Change Drum Inspection Period	2	10/22/92
FO.11	Field Communications	2	05/12/92
FO.12	Decontamination Facility Operations	2	05/12/92
FO.13	Containerization, Preserving, Handling and Shipping of Soil and Water Samples	2	05/12/92
DCN 92.01	Chain of Custody	2	07/27/92

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Procedure No.	Title	Rev. No.	Effective Date
FO.14	Field Data Management	2	05/12/92
DCN 92.01	Update Bottle Codes and Lab Codes to Current Status	2	06/30/92
DCN 92.02	Clarification of Biological Locations (07/08/92- Extended)	2	11/20/92
DCN 92.03	Changes in Procedures (07/08/92 - Extended)	2	11/20/92
DCN 92.04	Expired	2	10/15/92
DCN 92.05	Update QA/QC Code List	2	09/28/92
DCN 92.06	Clarify Description	2	09/28/92
DCN 92.07	Update Bottle Code List	2	09/28/92
DCN 92.08	Add Sub-Contractor Abbreviations	2	10/14/92
DCN 92.09	Major Form Revision	2	11/03/92
DCN 92.10	Elimination of Non-Required Section	2	11/10/92
DCN 92.11	Update Bottle Code & Lab Codes to Current Status	2	12/09/92
FO.15	Photoionization Detectors (PIDs) and Flame Ionization Detectors (FIDs)	2	05/12/92
FO.16	Field Radiological Measurements	2	05/12/92
DCN 92.04	Expired	1	09/22/92
FO.17	Determining Out-Of-Specification Analytical Results for Environmental Samples		To Be Added
FO.18	Environmental Sample Radioactivity Content Screening	1	05/12/92
FO.19	Base Laboratory Work	2	05/12/92

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CONTROLLED DOCUMENT **DOCUMENT CHANGE NOTICE (DCN)**
 EG&G - ROCKY FLATS PLANT
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Title FIELD DATA MANAGEMENT	Date 19-NOV-92	extension DCN Number <u>92.02</u> 5-21000-OPS- <u>(92.03)</u> SYD
Expires <u>19-NOV-93</u>	Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Scope Limitation <u>NONE</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	Appendix FO.14A p. A-3	A.3.6	Eliminate entire section and replace with the following: A.3.6 BIOLOGICAL LOCATIONS Contact the designated EG&G RFEDS User System Manager to obtain a range of location codes. All biological locations will begin with the letters BI, followed by a four digit location, and then a two digit representation of the year. An example is shown below. BI200092 Biological Location 2000 originated in 1992.
2	App. FO.14A; A-4		Change "A.3.6" to "A.3.7" on Page A-4. <i>NOTE: Items #1 & #2 are an extension of DCN 92.02, effective 7/8/92</i>

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

1. The section that will be eliminated from this change reads as follows: "All biological locations will begin with the letters BI followed by 3 digits. Ebasco will have location B1001 through B1200; Stoller will have B1201 through B1400. An example is shown below. B1123 Biological Location 123"
 There are several problems with this nomenclature. In the immediate future there will be more than two sub-contractors performing this sampling, 999 locations are not enough, the SOP should not have the specific sub-contractor location code assignment listed due to contract changes, all new blocks of locations must be assigned by the RFEDS Users System Manager. This section has the typo error of "B1001" which was meant to be "B1001".

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X	12/4/92		User	X	19NOV-92
	EOM	X	11-20-92				
Approval of Responsible Manager 	Date 20 Nov 92	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? upon incorporation	Date Posted			

Title FIELD DATA MANAGEMENT	Date 19-NOV-92	extension DCN Number 5-21000-OPS-92.03
Expires <u>19-NOV-93</u> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u>NONE</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	11 of 13	5.7 paragraph 3	Add just before sentence beginning "A duplicate copy of these diskettes..." A copy of each chain-of-custody will be hand delivered to the designated EG&G RFEDS Users System Manager representative along with the data diskette and field data transmittal forms.
2	Appendix FO.14A	A.2	Change the SAMPLE TYPE for "Borehole Samples - drilling samples" from "SB" to "BH"
3	Appendix FO.14A	A.2	Change the SAMPLE PREFIX for "NPDES Program Samples for Ponds" from "NP" to "VW"
NOTE: This DCN is an extension of DCN 92.03, effective 7/8/92 pgt. Item 5 on DCN 92.03 is slightly different from Item 5 on this DCN.			

Justification (Reason for Change - Provide Numbers To Reference Corresponding Items Above)

1. The RFEDS Users System Manager requires a copy of the chain-of-custody to be able to provide a quality assurance check between the information entered into DATACAPI and the chain-of-custody.
2. Currently Borehole is the only medium that does not have the sample type match the first two characters of the sample number. This change will provide consistency between the sampling medium.
3. This sample type required a change due to the surveillance surface water program including more than the NPDES permit requirements. Surveillance surface water has been abbreviated to "VW" for the sample type to include NPDES, routine sampling, monthly reports and industrial monitoring.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X	12/4/92		User	X	19-Nov-92
	EOM	X	11-20-92				
Approval of Responsible Manager 			Date 20 Nov 92	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes, By What Date? upon receipt	
						Date Posted	

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Extension

Title FIELD DATA MANAGEMENT	Date 19-NOV -92	DCN Number 5-21000-OPS- <i>DCN-92.03</i>
Expires <u>19-NOV-93</u> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u>NONE</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
4	Appendix FO.14A	A.2.1	<p>Eliminate entire section and replace with the following: EXAMPLE SAMPLE NUMBERS</p> <p>SW12345WC Surface water sample number 12345 collected by Woodward Clyde</p> <p>SS12345ST Surficial soil sample number 12345 collected by Stoller</p> <p>DW12345IT Decon pad water sample 12345 collected by IT Corporation</p>
5	Appendix FO.14A	Add to end A.6	<p>Add section A.6 to this appendix to state the following:</p> <p>A.6 PROJECT NAME</p> <p>This field is to report the individual project. Typical projects include, but are not limited to, the following: OU1_RFI/RI, OU2_RFI/RI, OU3_RFI/RI, ... OU16_RFI/RI</p>

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

4. The section that will be eliminated requires that a sample number has a suffix for the operational unit. The RFEDS user system manager determined that this suffix was used incorrectly by the field personnel and the laboratories. Keeping ALL sample numbers to 9 characters will help with quality assurance, and the laboratories will not have to be responsible with appending the OU information onto the sample number. The project information will now come from #5 on this DCN.
5. The current default for the project name is "RPT" and "EMAD". This correction will provide the project detail necessary for data retrieval.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X		<i>[Signature]</i>	User	X	19-NOV-92

Approval of Responsible Manager <i>[Signature]</i>	Date	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date?	Date Posted
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Title FIELD DATA MANAGEMENT	Date 19-NOV-92	DCN Number 5-21000-OPS-92.11
Expires <u>19-NOV-93</u>	Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>SPD</i>
Scope Limitation <u>NONE</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	Appendix A-2 through A-9 <i>RJH 11/25/92</i>	A.4.1	Replace section A.4.1 with the attached revised bottle code list The attached list includes all bottle codes from the following DCN's 5-21000-OPS-FO.14,R2 DCN 92.01 5-21000-OPS-FO.14,R2 DCN 92.04 <i>RJH 11/25/92</i> 92.07 5-21000-OPS-FO.14,R2 DCN 92.07

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

Additional and deleted bottle codes made it necessary to compile a new list.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	12/1/92	<i>[Signature]</i>	User	X	19-NOV-92
<i>[Signature]</i>	EOM	X	11-20-92				
Approval of Responsible Manager <i>W.S. Busby</i>	Date <i>Nov 20 1992</i>	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? <i>upon receipt</i>	Date Posted			

A.4.1 BOTTLE ID CODES

The following is a list of the bottle codes and the associated analysis methods. These codes are used for input into the RFEDS field data capture (Datacap) module.

METHOD CODES

CODE	DESCRIPTION	GRAASP
V	CLP VOA PACKAGE	1.1 VOACLP
VAC	VOA EPA METHOD 624 COMPLETE LIST	1.3 VOA624
VAR	VOA EPA METHOD 624 REGULATED LIST	1.2 VOA624
VBC	VOA EPA SW-846 METHOD 8240 COMP	1.5 VOAS240
VBR	VOA EPA SW-846 METHOD 8240 REG. LIST	1.4 VOAS240
VCC	VGA EPA METHOD 524.4 COMPLETE LIST	1.7 VOA524.2
VCR	VOA EPA METHOD 524.2 REGULATED LIST	1.6 VOA524.2
VDC	VOA EPA METHOD 502.2 COMPLETE LIST	1.9 VOA502.2
VDR	VOA EPA METHOD 502.2 REGULATED LIST	1.8 VOA502.2
VEC	VOA EPA METHOD 601 COMPLETE LIST	1.11 VOA601
VER	VOA EPA METHOD 601 REGULATED LIST	1.10 VOA601
VF	VOA EPA METHOD TO-14	1.12 VOATO-14
VG	TRI-HALO-METHANES (THMS)	VOATHM
B	SEMI-VOLS EPA CLP METHOD	1.13 BNACLP
BAC	SEMI-VOLS EPA METHOD 625 COMPLETE LIST	1.15 BNA625
BAR	SEMI-VOLS EPA METHOD 625 REGULATED LIST	1.14 BNA625
BB	SEMI-VOLS EPA METHOD 625 BASE/NEUTRAL E	1.16 BNA625B
BCC	SEMI-VOLS EPA METHOD 1625 COMPLETE LIST	1.18 BNA1625
BCR	SEMI-VOLS EPA METHOD 1625 REGULATED LIST	1.17 BNA1625
BDC	SEMI-VOLS EPA METHOD 8270 COMPLETE LIST	1.20 BNA8270
BDR	SEMI-VOLS EPA METHOD 8270 REGULATED LIST	1.19 BNA8270
BEC	SEMI-VOLS EPA METHOD 525 COMPLETE LIST	1.22 BNA525
BER	SEMI-VOLS EPA METHOD 525 REGULATED LIST	1.21 BNA525
P	PESTICIDES/PCB CLP METHOD	1.23 PESTCLP
PAC	ORGANOCHLORINE PEST/PCB METHOD 608 COMPLETE	1.25 PEST608
PAR	ORGANOCHLORINE PEST/PCB METHOD 608 REGULATED	1.24 PEST608

PBC	ORGANOCHLORINE PEST/PCB METHOD 505 COMPLETE	1.27	PEST505
PBR	ORGANOCHLORINE PEST/PCB METHOD 505 REGULATED	1.26	PEST505
PCC	OCL PEST 8080 COM.	1.29	PEST8080
PCR	ORGANOCHLORINE PEST/PCB METHOD 8080 REGULATED	1.28	PEST8080
PD	PCBS ONLY, BY EPA METHOD 8080 COMPLETE	1.30	PCB8080C
PE	CHLORINATED HERBICIDES METHOD 615	1.31	CHER615
PF	ORGANOCHLORINE HERBICIDES METHOD	1.32	HER68150
PGC	CHLORINATED HERBICIDES METHOD 508 COMPLETE	1.34	HERB508
PGR	CHLORINATED HERBICIDES METHOD 508 REGULATED	1.33	HERB508
PH	TRIAZINE PESTICIDES METHOD 619	1.35	TRIP619
PI	TRIAZINE PESTICIDES METHOD 507	1.36	TRIP507
PJ	PEST/PCB/HERB BY LIQUID CHROMATOGRAPHY MASS SP	1.37	PESTMS
PK	PEST/PCB/HERB BY LIQUID CHROMATOGRAPHY FLUORES	1.38	PESTLC
PL	NITROSO-AMINES EPA METHOD 607	1.39	NAEST607
PM	POLYNUCLEAR AROMATIC HYDROCARBONS METHOD 610	1.40	HPH610
PN	DIOXIN (2,3,7,8-TCDD) EPA METH 613	1.41	DPEST613
M	METALS (STANDARD & ADDITIONAL) CLP		METCLP
M*	METALS (STANDARD & ADD.) CLP DISSOLVED		DMETCLP
MA	METALS STANDARD CLP	1.42	SMETCLP
MA*	METALS STANDARD CLP DISSOLVED	1.42	DSMETCLP
MB	ADD. CLP METALS (CS,CR,LI,MO,SI,SR,SN)	1.43	METADD
MB*	ADD. CLP METALS DISSOLVED	1.43	DMETADD
MC	METALS BY ATOMIC ADSORPTION		MEICLPA
MC*	METALS BY ATOMIC ADSORPTION DISSOLVED		DMETCLPA
MDA	HSL METALS		HSLMET
MDB	HSL MET HG		HSLMETD
ME	BIOLOGICAL METALS SUITE		BIOMET
MF	ICP METALS		ICPMET
MG	LEAD, COPPER		SMETCLP
WAA	TSS,TDS,CL,F,SO4,CO3,HCO3	1.44	WQPL

WAB	NVSS, TDS, TSS	1.44	WQPL
WAC	TDS	1.44	WQPL
WAD	TDS, TSS	1.44	WQPL
WAE	TSS	1.44	WQPL
WAF	NVSS, TDS	1.44	WQPL
WAH	CO ₃ , HCO ₃	1.44	WQPL
WAI	NVSS	1.44	WQPL
WAJ	CHLORINE	1.44	WQPL
WAK	FLUORIDE	1.44	WQPL
WAL	SO ₄ SULFATE	1.44	WQPL
WAM	CO ₃ CARBONATE	1.44	WQPL
WAN	HCO ₃ BICARBONATE	1.44	WQPL
WBA	AMMONIA (NH ₄)	1.44	WQPL
WBB	TOTAL PHOSPHOROUS	1.44	WQPL
WBC	NITRATE/NITRITE AS N (NO ₃ /NO ₂ AS N)	1.44	WQPL
WBD	TOTAL PHOSPHORUS & AMMONIA (NH ₄)	1.44	WQPL
WBE	NO ₃ /NO ₂ AS N, TOTAL PHOSPHOROUS AND AMMONIA	1.44	WQPL
WBF	NO ₃ /NO ₂ AS N, TOTAL PHOSPHOROUS	1.44	WQPL
WBG	NO ₃ /NO ₂ AS N, AMMONIA (NH ₄)	1.44	WQPL
WBH	NO ₃ , AMMONIA (NH ₄)	1.44	WQPL
WBI	ALKALINITY	1.44	WQPL
WBJ	TOTAL POTASSIUM	1.44	WQPL
WBK	NITRATE NO ₃ AS N	1.44	WQPL
WC	OIL & GREASE	1.44	WQPL
WDA	O-PHOSPHATE	1.44	WQPL
WDB	NO ₂	1.44	WQPL
WDC	O-PHOSPHATE, NO ₂	1.44	WQPL
WDD	O-PHOSPHATE, NO ₂ /NO ₃	1.44	WQPL
WE	CN	1.44	WQPL
WF	FECAL COLIFORMS, COLIFORM	1.44	WQPL
WG	COD	1.44	WQPL

WH	TOC	1.44	WQPL
WI	DOC	1.44	WQPL
WJ	SULFIDE AS H2S	1.44	WQPL
WKA	CR6	1.44	WQPL
WKB	TOTAL CHROM	1.44	WQPL
WL	PH AND ALKALINITY	1.44	WQPL
WM	TOTAL KJELDAHL NITROGEN	1.44	WQPL
WNA	BOD5,CBOD5	1.44	WQPL
WNB	CBOD5	1.44	WQPL
WNC	BOD5 BIOCHEM OXYGEN ON DEMAND	1.44	WQPL
WPA	ACUTE TOX.	1.44	WQPL
WPB	MICRO TOX.	1.44	WQPL
WPC	CHRONIC TOX.	1.44	WQPL
WQ	BIOTA-OTHER	1.44	WQPL
WR	HARDNESS	1.44	WQPL
WS	COD,NO3,NH4	1.44	WQPL
WSA	COD,NO3	1.44	WQPL
WT	TOTAL COLIFORM	1.44	WQPL
WU	CONDUCTIVITY	1.44	WQPL
WV	PHENOL	1.44	WQPL
WW	TOTAL PETROLEUM HYDROCARBONS	1.44	WQPL
WX	TOTAL ORGANIC HALOGENS (TOX)	1.44	WQPL
R	TOTAL RADIONUCLEIDES (RA,RB,RC,RD,RE,RF,RG)	1	TRADS
R*	DISSOLVED RADIONUCLEIDES (RA,RB,RC,RD,RE,RF,RG)	1	DRADS
RA	GROSS ALPHA/BETA	1	TRADS
RA*	GROSS ALPHA/BETA DISSOLVED	1	DRADS
RB	PU239/240. AM241	1	TRADS
RB*	PU239/240, AN241 DISSOLVED	1	DRADS
RBA	PU 239/240	1	TRADS
RC	U233/234, U235, U238	1	TRADS

RC*	U233/234, U235, U238 DISSOLVED	1	DRADS
RD	SR89/90, CS137 (+CS134 WHEN BY GAMMA)	1	TRADS
RD*	SR89/90, CS137 DISS (+CS134 WHEN BY GAMMA)	1	DRADS
RDA	CESIUM 137 ANALYSIS	1	TRADS
RE	RA226, RA228	1	TRADS
RE*	RA226, RA228 DISSOLVED	1	DRADS
RF	THORIUM 230/232, CM 244, NP 237	1	TRADS
RF*	THORIUM 230/232, CM 244, NP 237 DISSOLVED	1	DRADS
RG	TRITIUM	1	TRADS
RH	RAD SCREEN	1	RS
RI	RA+RB+RC+RD (TYPICALLY SURFACE WATER)	1	TRADS
RI*	RA**RB**RC**RD*	1	DRADS
RJ	RA+RB+RC+RD+RG (TYPICALLY SEDIMENTS)	1	TRADS
RJ*	RA**RB**RC**RD**RG* (TYPICALLY SEDIMENTS)	1	DRADS
RK	RA+RC+RD+RE (TYPICALLY GROUNDWATER)	1	TRADS
RK*	RA**RC**RD**RE* (TYPICALLY GROUNDWATER)	1	DRADS
RM	RA+RC (TYPICALLY GROUNDWATER)	1	TRADS
RM*	RA**RC* (TYPICALLY GROUNDWATER)	1	DRADS
RN	RB+RC (PU239/240, AN241, U233/234 , U235, U238)	1	TRADS
RN*	RB**RC* (PU239/240, AN241, U233/234 , U235, U238)	1	DRADS
RP	RD+RE (TYPICALLY GROUNDWATER)	1	TRADS
RP*	RD**RE* (TYPICALLY GROUNDWATER)	1	DRADS
RQ	RA+RB+RC+RD+RE (TYPICALLY FOR CORE SAMPLES)	1	TRADS
RQ*	RA**RB**RC**RD* (TYPICALLY FOR CORE SAMPLES DI	1	DRADS
RR	RA+RB+RC	1	TRADS
RR*	RA+RB+RC DISSOLVED	1	DRADS
RS	POLONIUM 210	1	TRADS
SFA	TCLP REGULATED VOA LIST	1.45	VOATCLP
SFB	TCLP REGULATED SEMI-VOA LIST	1.45	ENATCLP
SFC	TCLP REGULATED PESTICIDE/HERBICIDE LIST	1.45	PESTTCLP

SFD	TCLP REGULATED METALS LIST	1.45	METTCLP
SH	RCRA HAZ-WASTE CHAR. (I,C,R,T)	1.47	ICRT
SI	SEQUENTIAL EXTRACTION OF TRACE ELEMENTS	1.48	OTHER
TX	BIOLOGICAL TAXONOMIC LIST		BIOTAX
GA	ELECTRICAL CONDUCTIVITY		EH3.2.18
GB	PERCENT ORGANIC MATTER		GEOORG
GC	PERCENT CACO3 EQUIVALENT		GEOCACO
GD	CATION EXCHANGE CAPACITY		EPA9081
GE	BULK DENSITY		ASTM2216
GF	FREE FE OXIDES		GEOFFE
GG	SPECIFIC DENSITY		GEOSD
GH	LIME CONTENT, EPA 3.2.8, PH < OR = 6.5		EPA3.2.8
GI	LIME CONTENT, EPA 3.2.3, PH > 6.5		EPA3.2.3
GK	EXCHANGEABLE CATION K+		GEOECK
GL	EXCHANGEABLE CATION CA+		GEOECA
GM	EXCHANGEABLE CATION MG+		GEOECMG
GN	EXCHANGEABLE CATION NA+		GEOECNA
GO	SUSPENDED SEDIMENT CONCENTRATION		GEOSSC
GTB	SIEVE TEST (GRAIN SIZE)		GEOSIEV
GTS	BACK-PRESSURE PERMEAMETER TEST		GEOPERM